

MAY 19, 2011

TO:

BOARD OF DIRECTORS

THROUGH: ARTHUR T. LEAHY

CHIEF EXECUTIVE OFFICER

FROM:

MARTHA WELBORNE, FAIA

**EXECUTIVE DIRECTOR, COUNTYWIDE PLANNING** 

SUBJECT:

ANALYSIS OF FINANCIAL IMPACTS OF PROPOSED COST AND

SCOPE CHANGES FOR CRENSHAW/LAX CORRIDOR PROJECT

### ISSUE

This report responds to a request to analyze the funding impacts of two scenarios related to increasing the cost and recommended scope of the Crenshaw/LAX Corridor project, as follows:

- Scenario 1: An additional station at Vernon Avenue in Leimert Park; and
- Scenario 2: An additional station at Vernon Avenue and under-grounding through Park Mesa Heights (48<sup>th</sup> to 59<sup>th</sup> Streets).

### **ANALYSIS**

It is extremely important to note that we have undertaken our analysis before accounting for the possible decrease in available revenues. This possible decrease in available revenues may be due to the cancellation of the Spring 2011 State Proposition 1B bond sale (\$174 million), the possible cancellation of the Fall State bond sale (estimated at \$400 million), and the possible federal transportation funding cuts pending in Congress (14% to 30%, or \$1.0 billion to \$2.2 billion). If any or all of these revenues are actually lost, the results of our analysis will be far worse than what is explained herein and in the attached. Already we have already accounted for the sales tax forecast change made necessary by the 2009 worldwide economic recession.

In April 2011, the Board of Directors adopted priorities for the Los Angeles County Transportation Improvement Program (TIP) from fiscal year (FY) 2011 through FY 2019. Attachment A summarizes the adopted Los Angeles County TIP priority categories and Attachment B provides a detailed analysis of our current status in trying to fund the entire program. We developed the analysis displayed in Attachment B by incorporating prior Board actions and 2009 Long Range Transportation Plan (LRTP) assumptions that were updated to reflect the worldwide economic recession and recovery.

### **Analysis Assumptions**

This analysis includes prior Board actions and any staff recommendations that will be necessary to acquire, construct, and operate the South Western Light Rail Yard and the base Crenshaw/LAX project. Prior Board actions included in the analysis consist of the following uses of \$60.0 million in contingency funds once set aside in the LRTP but now no longer available:

	Metro Gold Line Eastside Quad Gates	\$ 3.3 million
•	US 101 Freeway Ramp Realignment	\$ 2.9 million
	Expo Phase 1 Safety Enhancements	\$ 36.6 million
•	Expo Phase 1 Claims (part of \$28.5 m. total)	\$ 17.2 million

Once the above LRTP contingency was exhausted, the following additional prior actions of the Board of Directors added \$131.5 million in unanticipated costs to the first decade of the LRTP. These added costs will force us to partially defer certain Metrolink and Red Line System Improvements into the next decade as discussed later in this report:

•	Expo Phase 1 Claims (remainder of \$28.5 m. total)	\$ 11.3 million
•	Blue & Green Line Passenger Info. System	\$ 6.0 million
•	Metro Express Lanes	\$ 37.2 million
•	Miscellaneous Projects (each less than \$1 million)	\$ 2.0 million
	Union Station Purchase	\$ 75.0 million

Recommendations to the Board of Directors that will soon be necessary to be able to acquire, construct, and operate the South Western Light Rail Yard and the base Crenshaw/LAX project are as follows and described in more detail below:

- Countywide Light Rail Yard Shortfall (preliminary est.) \$154.0 million
- Base Crenshaw/LAX Cost Increase \$ 48.8 million

This analysis assumes that rail yard and maintenance facilities costs will be shared amongst the beneficiary projects and that the base cost of the Crenshaw/LAX project will be met. We have assumed for this analysis that the Crenshaw/LAX project cost estimate adequately addresses funding requirements for its share of these rail yards and maintenance facilities. However, implementing the Measure R rail program in its entirety countywide will require adequate capacity for all future rail extensions, even those not funded in the first decade of the LRTP. A first decade countywide light rail yard shortfall of at least \$154 million now exists because light rail yards for projects later in the LRTP are to be addressed now as part of the Southwestern and Eastern yards. As we approach second and third decade projects later in the LRTP, these accelerated expenditures may yield savings that could be used to restore funding for first decade projects to be deferred now in favor of meeting immediate needs for rail yards and facilities. This analysis reflects these rail needs and the needs for the Crenshaw/LAX base budget.

The base budget for the Crenshaw/LAX project is not yet constrained to its LRTP figure of \$1,715.0 million. At a minimum, it is believed that we will need an additional \$48.8 million to meet the base Crenshaw/LAX project cost. The \$48.8 million figure

assumes that certain value engineering assumptions, including abandonment of the Burlingtion Northern Santa Fe (BNSF) track, the modified LAX Trench segment, and other changes are achievable. Without achieving such assumptions, the cost difference may exceed \$100 million. This analysis assumes that the minimum cost increase must be met to implement the base cost of the Crenshaw/LAX project.

In summary, prior Board actions and any staff recommendations that will be necessary to acquire, construct, and operate the South Western Light Rail Yard and the base Crenshaw/LAX project are assumed in the base case for both scenarios of this analysis. In both scenarios, these base case assumptions reduce the amount of funding available for the Metrolink and Red Line System Improvements discussed below.

### Scenario 1 (Attachments C and D):

Implementing this scenario would require approximately \$131.0 million in additional funding not contemplated in the LRTP: \$131.0 million for the proposed additional station at Vernon on the Crenshaw/LAX Corridor project in Year-of-Expenditure (YOE) dollars.

As shown in Attachment D, there are no uncommitted funds available to support these cost increases. Before the possible state and federal revenue decreases discussed above, the added cost and scope of the Crenshaw/LAX project would require that we defer the majority of the improvements from amongst this list of Board-adopted priorities (all YOE dollars in millions):

Metrolink Rehab. (Cars, Tracks, Bridges, Signals)	\$ 62.6 M
Existing Rail System Improvements to Support Higher Ridership:	
Ventilation North Hollywood	\$160.0 M
Red Line Train Control	\$ 60.0 M
North Hollywood Terminal	\$ 94.2 M
Red Line traction power improvements	\$ 94.2 M
Red Line Upgrade Division 20	\$113.6 M
Total	\$584.6 M

Priorities were not set within this group of projects. The \$131.0 million needed for the Vernon Station would require that a subset of the total package be deferred.

### Scenario 2 (Attachments E and F)

Implementing this scenario would require up to \$400.0 million in additional funding not contemplated in the LRTP: \$400.0 million (YOE \$s) for the proposed additional station at Vernon Avenue and under-grounding through Park Mesa Heights on the Crenshaw/LAX Corridor project.

As shown in Attachment F, there are no uncommitted funds available to support these cost increases. The funding needs above would require that we defer all of the remaining Metrolink and Red Line System Improvements shown in Attachment F and described in Scenario 1 above. Also, an additional \$149 million in projects from the

next transit category in the list of Board-adopted priorities would have to be deferred or some other combination totaling \$400 million:

Metro Bus Acquisition (non-FAP) (47% of 1 <sup>st</sup> decade need)	\$5	80	M
Metro Rail Capital:			
Facilities Maintenance (50% of 1 <sup>st</sup> decade need)	•	50	
Miscellaneous Projects (50% of 1 <sup>st</sup> decade need)		80	
Miscellaneous Red, Blue, Green Impvm'ts (50% of 1st dec. need	\$	40	М
Safety and Security Projects (50% of 1 <sup>st</sup> decade need)	\$	35	M
Vehicle Maintenance (50% of 1 <sup>st</sup> decade need)	\$	15	M
Wayside Systems (50% of 1 <sup>st</sup> decade need)	\$	20	M
East San Fernando Valley North-South Rapidways	\$1	23	<u>M</u>
TOTAL	\$9	43	M

Again, priorities were not set within this group of projects. The projects above are generally selected annually, except for the East San Fernando Valley North-South Rapidways. These annually selected projects may typically be safety and security upgrades and projects that replace and often upgrade aging assets such as vehicle and wayside signaling and dispatching systems, air-conditioning, lighting, and elevators. We do not recommend deferring these maintenance expenses under any circumstances.

Finally, Scenario 2 could require a policy decision from the Board of Directors relating to the transit-versus-highway program: Should we defer additional highway projects instead? If the Board decided to do so, this list of projects could be impacted, subject to funding eligibility rules:

\$'s in Millions

	TOTAL	\$ 508.5
170	SR-138 Widening07 mi w of T-8-77th E; 89th E96th E.	65.0
169	SR-138 Widening - 106th St E. to 126th St E.; 77th to 89th	65.0
168	I-605 Corridor "Hot Spot" Intchg Gateway Cities - 50%	57.5
167	I-5 South(6): Florence Avenue Interchange	153.3
166	I-5 South(5): San Antonio, Imperial Hwy, and Orr and Day	167.7

Attachment G shows the highway projects that would be put at risk, should we defer highway projects instead of the transit category assumed for this analysis.

### **NEXT STEPS**

The Board of Directors is expected to be certifying the final Environmental Impact Statement/Environmental Impact Report for the Crenshaw/LAX Base and considering programming dollars to the Light Rail Yard costs in the coming months. In addition, the Board is expected to consider a motion that would add up to \$400.0 million for the proposed additional station at Vernon and the under-grounding through Park Mesa

Heights on the Crenshaw/LAX Corridor project. We are prepared to address these considerations as the Board may instruct.

If the Board directs us to add the additional scope of work from Crenshaw/LAX Scenario 1 or Scenario 2, we would need to reprogram the entire \$17.7 billion Los Angeles County TIP through FY 2019 according to fund source eligibility rules. Attachment H shows an estimate of the funding types assumed to be available through FY 2019. Numerous other funding considerations would have to be analyzed, including, but not limited to, the following:

- Eligibility of project activities under funding programs;
- Potential risk of lapsed or rescinded project specific discretionary funds;
- Ability to demonstrate to the Federal Transit Administration that State-of-Good Repair needs can be met;
- Compliance with the federal Clean Air Act's enforceable Transportation Control Measure rules;
- Measure R Ordinance regulations and statutory laws; and
- Annual availability and cash flow demands.

### ATTACHMENT(S)

- A. 2011 Los Angeles County TIP Priorities
- B. First Decade Priority Detail: Good Repair (171-176)
- C. Approved and Proposed Cost Increases: Scenario 1
- D. First Decade Priority Detail: Good Repair (171-176): Scenario 1
- E. Approved and Proposed Cost Increases: Scenario 2
- F. First Decade Priority Detail: Good Repair (171-176): Scenario 2
- G. First Decade Priority Detail: Highways (166-170) Alternate to Scenario 2
- H. First Decade Capital Project Funding Summary

### 2011 Transportation Improvement Prog. Priorities:

### FY 2011 to FY 2019

\$ 2.76 B Projects already under construction:

\$ 2.35 B Projects with bids advertised:

Right-of-way activities/ purchases:

\$ 0.35 B

\$ 1.97 B

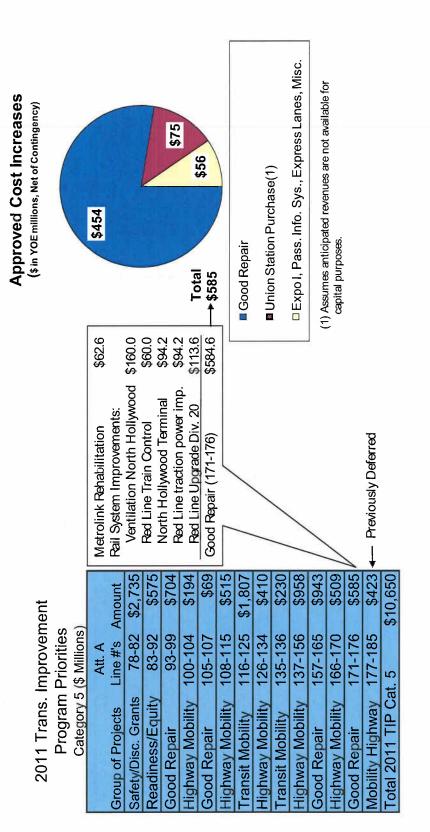
Begin or continue all 1st decade project development phases:

\$ 2.03 B Deferred \$10.65 B \$20.11 B Other projects/not included above Projects seeking funds to begin or continue project development 6 5

This analysis includes MTA project funding for projects over \$7 million in total cost.



### Attachment B 1st Decade Priority Detail: Good Repair (171-176)





### Approved & Proposed Cost Increases Scenario 1 - Add \$131 M for Vernon Station

(\$'s in Millions)

Attachment C

Project	Board Action Date and Report #	Amount
Metro Gold Line Eastside Quad Gates	May 2010, Report #29	\$ 3.30
US-101 Freeway Ramp Realignment	July 2010, Report #6	\$ 2.90
Expo Phase I	July 2010, Report #26	\$ 36.59
Expo Phase I (Partial)	Dec 2010, Report #6	\$ 17.21
Subtotal Approved, Applied to Contingency	ency	\$ 60.00

Expo Phase I (Balance)	Dec 2010, Report #6	ь	11.29
MBL/MGL Transit Passenger Info System	Sept 2010, Report #30	↔	5.99
Metro Express Lanes	Dec 2010, Report #22	↔	37.20
Miscellaneous Projects (less than \$1 million)	June 10, #28; July 10, #6 September 10, #3	€	2.00
Union Station Purchase	Closed Session	€\$	75.00
Subtotal Approved, Applied by Deferring Projects	g Projects	49	131.48

Crenshaw/LAX Base Cost Increase       July 2011       \$       48.80         Light Rail Vehicle Yards Shortfall       June 2011       \$       154.00         Vernon Station (Leimert Park)       Board Motion May 2011       \$       131.00         Subtotal Proposed Programming       \$       333.80				
June 2011 \$ Board Motion May 2011 \$	Crenshaw/LAX Base Cost Increase	July 2011	€9	48.80
Board Motion May 2011 \$ gramming \$	Light Rail Vehicle Yards Shortfall	June 2011	69	154.00
S	Vernon Station (Leimert Park)	Board Motion May 2011	es.	131.00
	Subtotal Proposed Programming		es-	333.80

525.28



TOTAL

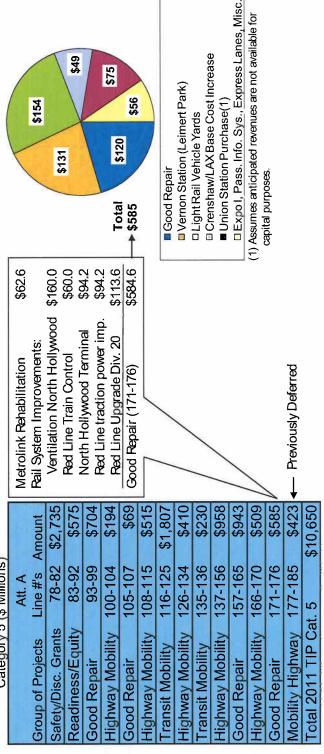
# 1st Decade Priority Detail: Good Repair (171-176)

Attachment D

2011 Trans. Improvement Program Priorities Category 5 (\$ Millions)

### Approved and Proposed Cost Increases

(\$ in YOE millions, Net of Contingency)





# Approved & Proposed Cost Increases

Attachment E

## Scenario 2 - Add \$400 M for Vernon Station & Under-grounding

(\$'s in Millions)

Project	Board Action Date and Report #	Amount	
Metro Gold Line Eastside Quad Gates	May 2010, Report #29	€9	3.30
US-101 Freeway Ramp Realignment	July 2010, Report #6	69	2.90
Expo Phase I	July 2010, Report #26	3(	36.59
Expo Phase I (Partial)	Dec 2010, Report #6	\$	17.21
Subtotal Approved, Applied to Contingency	ıncy	9 \$	00.09

Expo Phase I (Balance)	Dec 2010, Report #6	↔	11.29
MBL/MGL Transit Passenger Info System	Sept 2010, Report #30	↔	5.99
Metro Express Lanes	Dec 2010, Report #22	€9	37.20
Miscellaneous Projects (less than \$1 million)	June 10, #28; July 10, #6 September 10, #3	€	2.00
Union Station Purchase	Closed Session	€9	75.00
Subtotal Approved, Applied by Deferring Projects	Projects	₩.	131.48

Crenshaw/LAX Base Cost Increase	July 2011	€	48.80
Light Rail Vehicle Yards Shortfall	June 2011	€	154.00
Vernon Station (Leimert Park) + Undergrounding Board Motion May 2011	Board Motion May 2011	\$	400.00
Subtotal Proposed Programming		09 \$	602.80

794.28



TOTAL

Expol, Pass. Info. Sys., Express Lanes, Misc.

Vernon Station + Undergrdg. First \$251

\$94.2 \$94.2 \$113.6 \$584.6

Red Line traction power imp.

Red Line Upgrade Div. 20

Good Repair (171-176)

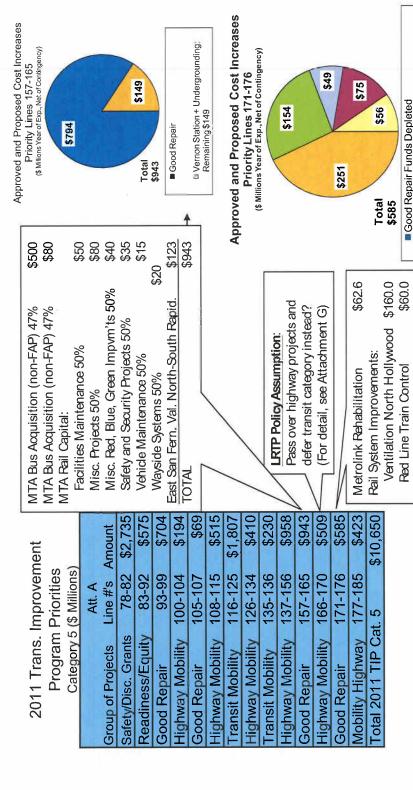
North Hollywood Terminal

□ Crenshaw/LAX Base Cost Increase

Light Rail Vehicle Yards

■ Union Station Purchase(1)

### Attachment F 1st Decade Priority Detail: Good Repair (171-176)



### (166-170) (Highway Alternate to Scenario 2) First Decade Priority Detail: Highways

Attachment G

\$'s in Millions

166	166 I-5 South(5): San Antonio, Imperial Hwy, and Orr and Day	167.7
167	167 I-5 South(6): Florence Avenue Interchange	153.3
168	168 I-605 Corridor "Hot Spot" Intchg Gateway Cities - 50%	57.5
169	169 SR-138 Widening - 106th St E. to 126th St E.; 77th to 89th	65.0
170	170 SR-138 Widening07 mi w of T-8-77th E; 89th E96th E.	65.0
	TOTAL	\$ 508.5



